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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
10 037.125	10 25 2001	Masafumi Inoue	MAT-8196US	5664
75.	90 06 11 2003			
RATNER AND PRESTIA			EXAMINER	
Suite 301 One Westlakes, Berwyn P.O. Box 980			EDMONDSON, LYNNE RENEE	
			ART UNIT	PAPER NUMBER
Valley Forge, P.	A 19482-0980			TATER INC. MINER
			1725	5
		DATE MAILED: 06/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/037,125	INOUE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lynne Edmondson	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	ely filed will be considered timely. he mailing date of this communication. 0 (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 25 C	October 2001 .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4) Claim(s) 1-16 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Ciaim(s) is/are allowed.						
6)⊡ Claim(s) <u>1-4,10 and 11</u> is/are rejected.						
7) Claim(s) <u>5-9 and 12-16</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>25 October 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120	21111101.					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)				
a)⊠ All b)□ Some * c)□ None of:	priority under 05 5.5.6. § 115(a)	-(u) or (i).				
1.⊠ Certified copies of the priority documents	s have been received					
Certified copies of the priority documents		on No.				
<ol> <li>Copies of the certified copies of the prior application from the International Bur</li> </ol>	ity documents have been receive eau (PCT Rule 17.2(a)).	d in this National Stage				
* See the attached detailed Office action for a list	·					
14) Acknowledgment is made of a claim for domestic		• • • • • • • • • • • • • • • • • • • •				
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti						
Attachment(s)						
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## **DETAILED ACTION**

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Wellbourn et al. (USPN 5656507).

Wellbourn teaches a component mounting method comprising printing solder so as to shift and create a predetermined offset the center of the electrode pad, placing the component after solder printing such that a placement position is shifted by the offset (figure 2), moving the component toward the center by melting the solder and securing the component by cooling as is conventional (col 4 line 45 – col 5 line 14). The offset takes into account a self-aligning effect (col 1 lines 53-67). The electrodes are line electrodes (may be L-shaped or rectangular, figure 1 and col 5 lines 48-53).

## Allowable Subject Matter

3. Claims 5-9 and 12-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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4. The following is a statement of reasons for the indication of allowable subject matter: The closest prior art teaches the invention essentially as claimed but only teaches two electrode lines. There is no disclosure of more lines or their configuration relative to a solder offset for component alignment. See Wellbourn (USPN 5656507) and Michael (USPN 6317513 B2).

## Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Marion et al. (USPN 6170155 B1).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (703) 306-5699. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (703) 308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7718 for regular communications and (703) 305-7115 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

Lynne Edmondson

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Examiner

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LRE June 9, 2003